

2/8

PROXY CLIENT INTERMEDIARY **APPLICATION** DATAGRAM APPLICATION DATAGRAM DATAGRAM SOURCE

APPLICATION DATAGRAM

REQUESTS FOR SERVICE

SERVER

CLIENT

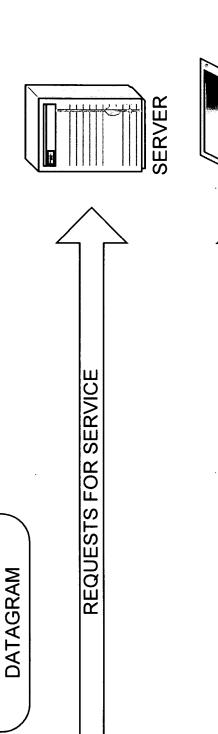
SERVICE RESPONSES

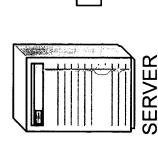
FIG. 2

CLIENT

SERVER

PROXY CLIENT DATAGRAM **NETWORK** MODIFIED ROUTER INTERMEDIARY PROXY CLIENT **DATAGRAM** DATAGRAM **NETWORK** 3/8 VIRTUAL ADDRESS INTERMEDIARY **DATAGRAM** NETWORK HEADER DATAGRAM NETWORK DATAGRAM SOURCE





CLIENT

SERVICE RESPONSES

FIG. 3

···.

CLIENT

EMBODIMENT 1: POINT-TO-POINT (HTTP, SMTP, POP3, FTP ETC..) APPLICATION LAYER (HTTP, SMTP, POP3, FTP ETC..) (ETHERNET, SERIAL LINK) APPLICATION LAYER TRANSPORT LAYER **NETWORK LAYER** (IP, ICMP, IGMP) **LINK LAYER** (TCP, UDP)

NETWORK COMMUNICATION AT EMBODIMENT 2: NETWORK-TO-(HTTP, SMTP, POP3, FTP ETC..) APPLICATION LAYER TRANSPORT LAYER **NETWORK LAYER NETWORK LAYER** (IP, ICMP, IGMP) (TCP, UDP) COMMUNICATION AT APPLICATION LAYER

FIG. 4

THE 4 NETWORK LAYERS

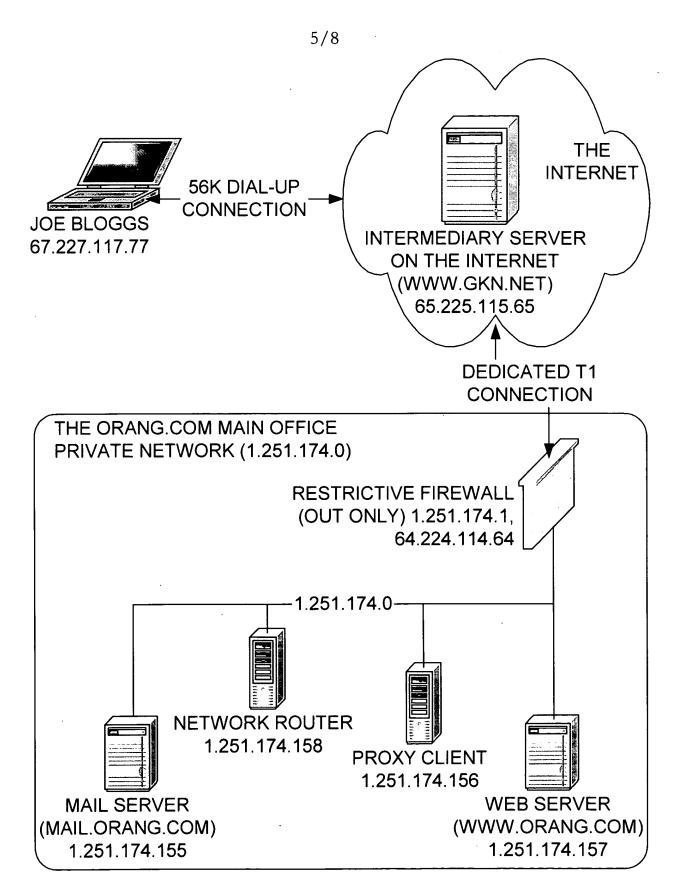


FIG. 5

